"The Thoroughbred!" That's the e enthusiastic owners have given series "S" Lexington chassis which litutes not only the feature of the

hanges, the desire for distinctive dedlity has been as insistent as ever Automobile engineers concede that "The JACKSON QUALITY Thoroughbred Chassis" has met these conditions in truly thoroughbred style, not even overlooking the demand for the new and distinctive in the way of

lesign and beauty.

The Lexington exhibit at the show inudes three models: the Lexington Min-

oughbred Chassis," a tribute to the viaion and skill of Lexington engineers.

The demand for cars of greater utility, greater economy, lighter weight
without loss of strength, have been met

problem presented by the constantly increasing traffic, making the Lexington and elm. The factory, through its thirty 
easy to park, easy to handle in traffic 
and quick to respond to the steering 
wheel. The wider rear end gives better 
body and spring support, materially reducing the tendency to side sway. In a 
word the new frame is stronger and 
insed uniformity and excellence of prodnized uniformity and excellence of prod-

tice has been reversed. These axies of Another big advantage is that work-lexington design are built and designed men are working from their own brue for this particular car and not construct-ed to fit a number of different cars of varying lengths of wheel bass and of varying weights. The number of parts

thirty-two inches long. The rear springs are fifty-two inches long and springs are fifty-two inches long and to the metal. The principle worked out in these eprings is to hinge the whole car around the front axie with only enough spring movement to cushion the road shocks at this point. road shocks at this point.

dency to bounce and giving especially desirable results at high speeds.

The one finger emergency brake mounted on the propeller shaft at the rear of the transmission is retained because of the popularity of this improve-ment due to its easy operation. The transmission has been made wonderfully quiet by the use of high carbon, oil treated steel in the gears. The bear-ing on the main shaft has been enlarged and a roller bearing replaces the plain

bushing in the pocket gear.

Throughout the 'Thoroughbred Chassis" oilless bushings have been used wherever possible, abriost eliminating HUDSON SETS COST STANDARD. the use of oil or grease cups.

One of the distinct new features is tho Lexi-gasifier. This device, used in com-bination with the Moore multiple exhaust system, not only converts every last particle of the heavier parts of the mobile sty fuel into power but protects the motion frequently to a large extent from the carboning S. Houpt.

W. H. Powell stepped up and inter-rupted him. W. H. Powell is in charge of a squad of men making regular trips back and forth between Detroit and Indianapolis, driving Dodge Broth-ers motor cars from the factory to E. W. Steinhart Company's sales-

he plane in the field.

It was he who first sighted

**Battery Lifted From Motor Car Enables** 

A FLEET of motor cars was proceeding spiritedly along the road from Detroit to Indiapanolis not long ago when the attention of the leader was arrested by the sight of an The motorist seized a blade, gave a

alrplane in a nearby field. The fleet stopped and the drivers found, as they had surmised, that the big "ship" was in distress.

The motorist seized a biase, gave a sharp twist and leaped gracefully back out of the roaring swath it cut through the air as the engine set up in distress.

"Guess I'm stuck," said the pilot; "Where you bound, Chicago?" Powell called to the pilot as he put one foot on the fuselage.

the plane in the field.
"It was mighty lucky I ran across you're in the Government mail you." the pilot was saying as he

"I see you're in the Government mail you." the pilot was saying as he service," he said, "and I suppose you're in a hurry to be getting on. Well, I think we can fix you up, Just a second."

And it was a little more than that before Powell came running back with a battery which he had "lifted" from one of the cars he left standing by the roadside.

"No trick at all," remarked Powell as he readjusted the battery in his bodge Brothers sedan and slipped the floorboard back in place. "But if I hadn't been testing ships for the Curtis people during the war it might have taken a little longer to figure it out."

roadside.

"Let's see, you need eight volts.

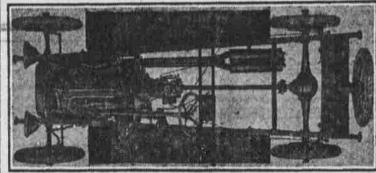
That's easy, we'll just hook up four cells on this battery," Powell remarked, and without so much as a pause proceeded to do the installing and hooking up himself. It was all finished in a minute.

Itaken a little longer to figure it out."

Five minutes later a big airplane circled down over the white highway on which a fleet of Dodge Brothers motor cars were skimming westward. The pilot was seen to lean slightly to and hooking up himself. It was all finished in a minute.

Government Aviator to Continue Flight

## New Lexington "Thoroughbred Chassis"



skidding and tire wear due to unequal braking. The new system also does away with rattling brake rods.

IS GUARANTEED

Complete Coach Work Has Been Done for Thirty Years.

Hodies for all Jackson models are built ute Man Six touring car, the Thorough- complete from raw materials in the bred, a sport model, and the new Lex-sedan. And it also includes the "Thor-tion, Jackson, Michigan. Likewise all

without loss of strength, have been mot its predocessors have been producing to a surprisingly successful degree. The frame design has been not only light-ened in weight, but it has been given the best of materials find their way into additional strength by the simple operation of making the side rails straight, ample, in the production of Jackson forming them in one solid unit, thereby climinating more than 100 parts.

This simple charge solves of light the This simple change solves of itself the under stress of scarcity of timber and oblem presented by the constantly in-

more rigid than ever before and yet is considerably lighter in weight.

The running boards are flanged on the inner and outer edges for rigidity.

They are bolted to the frame side rails.

They are bolted to the frame side rails. They are boited to the frame side rails.

making them easily removable if that necessity arises, and doing away with sheet steel valances necessary in other freght hauls to be added to overhead and the bugbear of deliveries is never and the bugbear of deliveries and the bugbear of deliveries is never and the bugbear and the bugbear of deliveries is never and the bugbear of deliveries is never and the bugbear and the bugbear and the bugbear and

warying weights. The number of parts in this new axie has been reduced and parts are designed to be used in duplicate wherever possible. All unnecessary weight in these axies has been removed. It is a full ball-bearing job and first class in every respect.

Semi-elliptic eprings are used front and rear, but in a combination of lengths decidedly out of the ordinary practice. The front springs are only thirty-two inches long. The rear Opportunity is also afforded for the most rigid of inspection before the body goes

In combination with the long flexible the car more pep and attractiveness, he rear springs, the car is comfortable at has the knowledge and authority to do it. Naturally this could not be done all speeds, reducing to the minimum any where an outside factory is simply rushing out production according to a set lot of specifications.

Rough, unfinished lumber is unloaded at the Jackson docks, goes into the company's own dry kilns, and after passing through numerous processes comes out mounted as bodies on Jack-

son chasses, ready for delivery.

All metal for bodies is drawn and
pressed in the Jackson plants. All paint
is applied there and all upholstery put in by experienced workmen. All joints are acetylene welded, not soldered.

Erratic Era of Changes Ended by

Sound Policy. "It is only a few years ago that auto-mobile styles and designs changed as frequently as the seasons," says Harry

avil and guards against the diluting of the oil in the crank case.

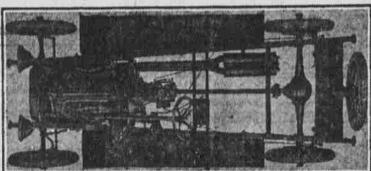
The Moore multiple exhaust system clears the cylinders of the burned gases, leaving them free for a full charge of pure gas. These devices increase the "Six months after its purchase a car

"Yes, coming right back," the pilot smswered, "get in. I'll get a new bat-tery over there."

Powell was already aboard and in a

moment the big plane was salling west-

ward through the clouds.
Five hours later, headed eastward, the plane awooped down over the same



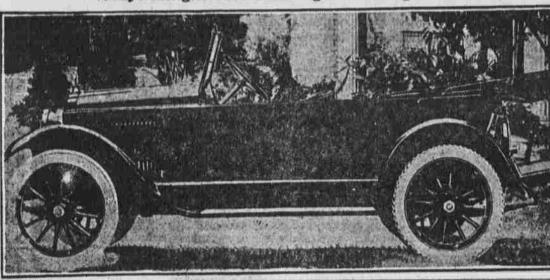
SOME NEW POINTS ON TRANSPORTATION

Slydesdale Official Tells of Won derful Development of

Methods and Care. "Modern transportation' is such a glib phrase that no one ever stops to think what it means," said J. C. L. Krebs, general manager of the Clydesdale Motor Truck Company of Clyde, Ohio, as he watched a demonstrator explaining the working of the famous Clydesdale "Driver Under the Hood," to an interested crowd.

"Suppose we could build a clock which would record not minutes but cen-turies," continued Mr. Krebs. Each

Willys-Knight Five Passenger Touring Car.



FLEXIBLE CHASSIS EASES CAR.

Holmes Company Shows What Non-Rigid Construction Means. "Flexibility in the chassis of a motor car is a great aid to ease of riding, says Arthur Holmes, president of the Holmes Automobile Company, manufacturers of the Holmes Improved Alexanders

Cooled Car. "In the construction of the Holmes chassis we have purposely eliminated all rigid cross members to obtain a frame that weaves with the preguingties in the road surfaces. When the

the wheels accommodate themselves to the inequalities in running surface. "The result may be compared to the case of riding on a horse that is trained to single foot rather than to canter or

"In so far as the term single footing can be applied to the riding of a motor car this is the result obtained in driving a Holmes car. Each wheel is able to find its own footing. Were the frame rigid the jumping of any one wheel would be communicated to the others with the result that the occupants of the

car would be joited about.
"It is the experience of men who drive the Holmes that they soon come to drive it like a motorcycle. They merely watch one wheel and keep it on the smoothest part of the road."

NASH FOUR RIVALS THE SIX. So satisfactorily has the new Nash Four been developed that those in a position to know declars it will equal the record of the Nash Six for unusually satisfac-tory service in the hands of owners.

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## New York to Montreal, 398 Miles, in 9 Hrs. 59 Min.

The quickest scheduled train journey now possible between New York City and Montreal, Canada, is 12 hours. A stock model Franklin Touring Car made the 398 miles in 9 hours 59 minutes running time on November 11th, setting a new touring record and equaling from New York to Albany the non-stop time of the Wolverine Express, 3 hours 20 minutes. Five hours of the trip were through rain, slush, snow, ice, and a gale that at times blew fifty miles an hour.

The return trip (401 miles) was made in 11 hours 28 minutes running time. The total elapsed time for the round trip was 24 hours 10 minutes, including time out for eating, replenishing fuel and oil and for customs inspections. No spare tires or tubes were carried. No tire chains were needed. No mechanical troubles developed.

The same driver, Mr. J. W. Banks, drove all the way. Mr. H. P. Merchant of the B. F. Goodrich Tire Company and Mr. J. R. Getty, of "Motor," were observers; Mr. L. A. Miller, passenger.



New York-Boston Round Trip, 458.8 Miles, in 12 Hrs. 5 Min.

On September 29th Mr. Banks drove a Franklin Touring Car from New York to Boston and back in 12 hours and 5 minutes, establishing what was then a road touring record of 458.8 miles at 38 miles an hour. He drove entirely at night without relief. No spare tires were carried, there were no tire accidents and the fuel average was 18 miles to the gallon of gasoline.



This year's Yosemite Run was won by Stanley S. Turner of Los Angeles in the Franklin Car. The Franklin took all three first prizes.

MT. WASHINGTON

P. E. Frost, of Portland, Me., included the climbing of Mt. Washington without a stop as part of a non-stop low gear run of 98.2 miles. Climbing the mountain without a halt is alone a record.

Every little while a Franklin Car in some section of the country sets a new road record or makes a clean sweep of an economy or reliability event. Recently Franklin drivers have made numerous 24-hour runs and long distance trips which prove that the Franklin Car is unsurpassed at piling up large mileage in a day's driving-over average highways or over all dirt roads. Here are the records-

865.4 miles in 24 hours-R. H. Cramer, Waterloo, Ia. 832.6 miles in 24 hours-Will Diddel, Indianapolis, Ind. 808.9 miles in 24 hours-P. A. Pfohl, Indianapolis, Ind. 746.1 miles in 24 hours-J. H. Manion, Indianapolis,

729.5 miles in 24 hours - J. T. Peachs, Duluth, Minn. 725.2 miles in 24 hours-L. W. Snotin, Indianapolis,

693 miles in 24 hours-Mrs. R. G. Reed, Boston, Mass.

406.3 miles in 12 hours in a Brougham-Mrs. O. C. Belt, Columbus, Ohio. New York to Montreal, 9 hours 59 minutes-J. W.

Banks, Newark, N. J. Round trip between New York and Boston, 12 hours and 5 minutes. New York to Albany, 3 hours 30 minutes.

Cincinnati to Cleveland and back in 15 hours and 45

Making time in a Franklin does not consist of spurts of 60 to 70 miles an hour over every straight stretch of good road, alternating with long stretches of annoying slowness over roads not so favorable.

The secret of the Franklin Car's ability to make faster average time over long distances than any other car is simply that the power of the Franklin Car is not handicapped by heavy weight or rigidity and their attendant dangers, driving strain and discomfort. The light weight and flexibly built Franklin holds the roads at all speeds, hugs the turns, smooths out the rough stretches and is practically never held up by tire accidents.

## FRANKLIN MOTOR CAR CO. of NEW YORK

GLENN A. TISDALE, President

1830 Broadway, New York Telephone Columbus 7556

1416 Bedford Ave., Brooklyn Telephone Prospect 4354



Boston to Syracuse and Back, Driven by Woman in 24 Hours' Time

A new mark for women drivers was set when Mrs. Ralph G. Reed recently drove 693 miles in 24 hours and 20 minutes elapsed time. The route lay between Boston and Syracuse and return and required twice passing through the congested traffic districts of those cities. Mrs. Reed believes that a heavy storm through which she had to drive for a hundred miles prevented her making even better time.



Reels Oft 832.6 Miles in a Day

W. H. Diddel, of Indianapolis, a non-professional driver, recently established a record for his section of the country for a 24-hour road run by covering 832.6 miles of road in 221/2 hours' actual running time. The trip was made in a stock model Franklin Touring Car, without ballast, shock absorbers, or any change from regular equipment. Mr. Diddel was accompanied by two official observers, but drove all the way himself.

A new 24-hour dirt road record was set when

Ralph H. Cramer, of Waterloo, Ia., recently

drove a Franklin stock car 865.4 miles in the

actual driving time of 23 hours and 4 minutes.

He drove the entire distance himself over

ordinary dirt roads without a second's relief,

beating the former record of J. T. Peacha, of

Duluth, who covered 729.5 miles in a

DETAILS OF THE RECORD

Miles Per Hour Average Dry Roads 38 9 miles Miles Per Hour Average Mud Roads 25.7 miles Grand Total Average Per Hour 37.5 miles

The engine was stopped but once. No mechanical

adjustments were made. No tire trouble. Driver: Ralph H. Cramer; Observers, W. A. Ridder; D. J. O'Neil, Waterloo Times Tribune; M. V. Briggs;

23 hours 4 min.

24 hours 0 min. 757 miles 108.4 miles

56 minutes

865.4 miles

Franklin.

Total Running Time Total Time for Fuel, Chains,

Total Mileage on Dry Roads Total Mileage on Mud Roads

Top up, etc. Total Time Consumed

Total Miles Run

Cincinnati to Cleveland and Back, Twice Across Ohio, in 15 Hrs. 45 min.

A motoring sensation was created in the state of Ohio when Cliff Leuders, without stopping the engine of his Franklin Touring Car, reduced the touring time from Cincinnati to Cleveland and back. He covered the 553 miles in 15 hours and 45 minutes of actual running. The odds were 4 to 1 that the previously announced time of 17 hours could not be made.

Covering this route at any speed is thought by Ohio motorists to be a severe test of any motor vehicle, so bad are the roads. Yet the Franklin averaged over 35 miles an hour. Rain which froze on the riders and turned into a blinding snowstorm added to the difficulties. Observers, Mr. Robert Beiser, Automobile Editor, Cincinnati Euquirer; Mr. Richard Powell.

No mechanical adjustments of any nature were necessary during the trip. And the mileage of the last twelve hours was as big as that of the first twelve hours, indicating that the driver felt little or none of the fatigue ordi-

narily to be expected. Two other Indianapolis motorists, likewise driving Franklins, also exceeded the former distance record. That, too, had been established by a Franklin Car.